



SEQUENCE LISTING

<110> Desjarlais, John R.

<120> APPARATUS AND METHOD FOR DESIGNING
PROTEINS AND PROTEIN LIBRARIES

<130> 16380-002001

<140> US 09/877,695

<141> 2001-06-08

<150> US 60/266,711

<151> 2001-02-06

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> exemplary motif

<400> 1

Ser	Leu	Pro	Ser	Gly	Trp	Thr	Gln	Leu	Thr	Lys	Ala	Ser	Asp	Asp	Thr
1				5				10						15	
Thr	Tyr	Tyr	Tyr	Asn	Lys	Thr	Thr	Asp	Val	Val	Thr	Asn	Thr	Arg	Pro
			20					25					30		
Thr	Asp														

<210> 2

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> exemplary motif

<221> VARIANT

<222> 1

<223> Xaa = Ser, Asn, or Asp

<221> VARIANT

<222> 8

<223> Xaa = Gln, Lys, Pro, Val, Glu, or Arg

<221> VARIANT

<222> 10

<223> Xaa = Thr or Lys

<221> VARIANT

<222> 12
 <223> Xaa = Ala or Ser

<221> VARIANT
 <222> 13
 <223> Xaa = Ser or Gly

<221> VARIANT
 <222> 15
 <223> Xaa = Asp, Asn, Glu, or Ser

<221> VARIANT
 <222> 22
 <223> Xaa = Lys or Gln

<221> VARIANT
 <222> 24
 <223> Xaa = Thr or Ser

<221> VARIANT
 <222> 25
 <223> Xaa = Asp or Asn

<221> VARIANT
 <222> 27
 <223> Xaa = Val or Lys

<221> VARIANT
 <222> 31
 <223> Xaa = Arg, Asn, or Gln

<221> VARIANT
 <222> 34
 <223> Xaa = Asp or Asn

<400> 2
 Xaa Leu Pro Ser Gly Trp Thr Xaa Leu Xaa Lys Xaa Xaa Asp Xaa Thr
 1 5 10 15
 Thr Tyr Tyr Tyr Asn Xaa Thr Xaa Xaa Val Xaa Thr Asn Thr Xaa Pro
 20 25 30
 Thr Xaa

<210> 3
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> exemplary motif

<221> VARIANT
 <222> 1
 <223> Xaa = Ser, Asn, Asp, or Glu

<221> VARIANT
 <222> 8

<223> Xaa = Gln, Lys, Pro, Val, Glu, Arg, or Asn

<221> VARIANT

<222> 9

<223> Xaa = Leu or Gln

<221> VARIANT

<222> 10

<223> Xaa = Thr or Lys

<221> VARIANT

<222> 12

<223> Xaa = Ala or Ser

<221> VARIANT

<222> 13

<223> Xaa = Ser or Gly

<221> VARIANT

<222> 14, 25, 29, 34

<223> Xaa = Asp or Asn

<221> VARIANT

<222> 15

<223> Xaa = Asp, Asn, Glu, or Ser

<221> VARIANT

<222> 16

<223> Xaa = Thr or Ser

<221> VARIANT

<222> 17

<223> Xaa = Thr or Val

<221> VARIANT

<222> 19

<223> Xaa = Tyr or Phe

<221> VARIANT

<222> 22

<223> Xaa = Lys, Gln, or Glu

<221> VARIANT

<222> 24

<223> Xaa = Thr or Ser

<221> VARIANT

<222> 26

<223> Xaa = Val, Thr, or Gln

<221> VARIANT

<222> 27

<223> Xaa = Val, Lys, or Thr

<221> VARIANT

<222> 28

<223> Xaa = Thr or Gln

<221> VARIANT
 <222> 31
 <223> Xaa = Arg, Asn, or Gln

<400> 3
 Xaa Leu Pro Ser Gly Trp Thr Xaa Xaa Xaa Lys Xaa Xaa Xaa Xaa Xaa
 1 5 10 15
 Xaa Tyr Xaa Tyr Asn Xaa Thr Xaa Xaa Xaa Xaa Xaa Thr Xaa Pro
 20 25 30
 Thr Xaa

<210> 4
 <211> 34
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> exemplary motif

<221> VARIANT
 <222> 1
 <223> Xaa = Ser, Asn, or Asp

<221> VARIANT
 <222> 8
 <223> Xaa = Gln or Lys

<221> VARIANT
 <222> 10
 <223> Xaa = Thr or Lys

<221> VARIANT
 <222> 12
 <223> Xaa = Ala or Ser

<221> VARIANT
 <222> 13
 <223> Xaa = Ser or Gly

<221> VARIANT
 <222> (14) ... (15)
 <223> Xaa = Asp or Asn

<221> VARIANT
 <222> 17
 <223> Xaa = Thr or Val

<221> VARIANT
 <222> 19
 <223> Xaa = Tyr or Phe

<221> VARIANT
 <222> 22
 <223> Xaa = Lys or Gln

<221> VARIANT
 <222> 24
 <223> Xaa = Thr or Ser

<221> VARIANT
 <222> 25
 <223> Xaa = Asp or Asn

<221> VARIANT
 <222> 27
 <223> Xaa = Val or Lys

<221> VARIANT
 <222> 28
 <223> Xaa = Thr or Gln

<221> VARIANT
 <222> 31
 <223> Xaa = Arg or Asn

<221> VARIANT
 <222> 34
 <223> Xaa = Asp or Asn

<400> 4
 Xaa Leu Pro Ser Gly Trp Thr Xaa Leu Xaa Lys Xaa Xaa Xaa Xaa Thr
 1 5 10 15
 Xaa Tyr Xaa Tyr Asn Xaa Thr Xaa Xaa Val Xaa Xaa Asn Thr Xaa Pro
 20 25 30
 Thr Xaa